

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Schmitt, et al.	§	Case: AMAT/8568/DSM/BCVD/JW
Serial No.: 10/812,717	§	
	§	Filed: March 29, 2004
Examiner: Lafond, Ronald D.	§	
	§	Group Art Unit: 1709
Confirmation No.: 3736	§	
	§	
Title: DEPOSITION OF LOW	§	
DIELECTRIC CONSTANT BY N₂O	§	
ADDITION	§	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

DECLARATION UNDER 37 C.F.R. § 1.131

I, Raymond Kwong, hereby declare as follows:

1. Applied Materials, Inc., is the owner of one hundred percent of the interest in United State Patent Application Serial No. 10/812,717. The assignment to Applied Materials, Inc., was recorded on March 29, 2004 on Real/Frame No. 015164/0571;

2. After referring to Applied Materials Human Resource (HR) records, I believe that the inventor, Padmanabhan Krishnaraj, is deceased;

3. In view of Exhibit A1-C and the declaration provided by Ms. Francimar C. Schmitt, I declare on behalf of the deceased inventor that the invention of pending claims 1-14 was conceived of prior to October 16, 2003, and filed with due diligence to the filing date of the present application on March 29, 2004;

4. I hereby declare that all statements made herein of my own knowledge are true, and that statements made on information and belief are believed to be true. Further, I hereby acknowledge that making willfully false statements is punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that any such willful false statements may jeopardize the validity of the Application or any patent resulting therefrom.

Feb 11, 2008
Date


Raymond Kwong
Vice President, Applied Materials, Inc
Chief Intellectual Property Counsel and
Assistant Corporate Secretary

Exhibit A1

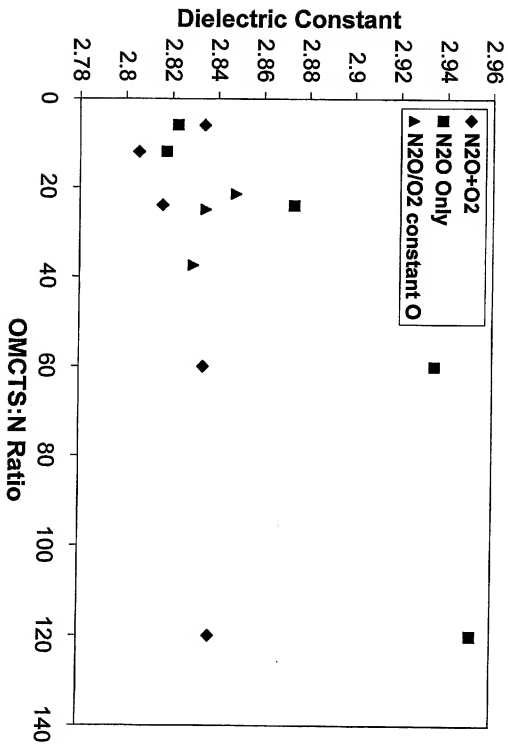


Exhibit A1

[illegible][illegible]

0	2.61362	13.42	2.82	18.020
250	2.792173	14.86	2.80	16.010
500	2.807118	12.86	2.78	14.610
750	2.787	10.48	2.80	12.830
1000	2.619773	7.154	2.80	11.750
2000	2.658489	-8.156	2.84	2.851
3500	2.62134	-22.07	2.81	-7.005

TFMS		Saved measurement			3:21:38 pm	
4.11a16		Active file: PRODUCER\BDIT\BDIT_3MM				
Date/Time, Cas/Sit, Aug(t1), Aug(n1), Rng(t1)						
09:154	01/17	11375.45	1.4245	1616.41	} Raho → CPN: 78	Exit
09:156	01/19	11581.93	1.4227	1649.69		More
09:158	01/21	11494.81	1.4285	1527.95		
10:103	01/23	12612.93	1.4226	1593.88	} Raho → CPN: 78	Param
12:113	01/23	6699.78	1.5362	21047.09		Print
12:115	01/25	7887.78	1.5592	21849.99		
12:120	01/26	9959.84	1.4446	3633.52	} Raho → CPN: 78	
12:130	01/27	9556.36	1.3375	6126.01		
12:132	01/28	9134.11	1.4188	5838.25		
12:134	01/29	9192.83	1.3754	3389.95		} Raho → CPN: 78
12:136	01/18	8783.73	1.3263	4836.47		
12:155	01/11	9682.48	1.4629	4875.91		
12:157	01/12	9127.39	1.4661	4325.60		} Raho → CPN: 78
12:159	01/13	9544.18	1.4814	4854.38		

OF5340/59189/8249

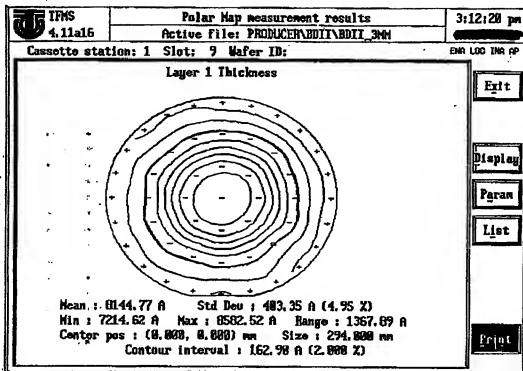
CPN 78-DXCN 10-102

310055 22.51

10/27 48.732

K=2.52 → 2000 ft
CPN 78

Exhibit C



OP5340/59189/8249

4 2 0 Si
ASAP 25.5 | 25.1 | 20.2 | 25.9
EPR 27.1 | 25.5 | 21.6 | 25.8

$$C_p = 7214.62$$

$$\text{stress} = 21.17$$

$$R_{\text{fOx}} = 148.1$$

$$T_{\text{ox}} = 513.5$$

$$C_{\text{ap}} = 75.99$$

$$k = 2.81$$

AS DEP

$$N_2O = 100 \text{ sccm}$$

$$O_2 = 110 \text{ sccm}$$

$$\phi = \text{FS-N-11e}$$